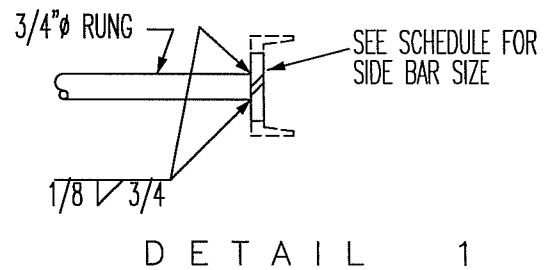


SIDE RAIL SIZE	MAX. UNBRACED LENGTH
Bar 2-1/2 x 3/8	8'-0
Bar 3 x 1/2	12'-0
Bar 3 x 1/2	14'-0
Bar 3 1/2 x 1/2	16'-0
C 3x5	18'-0



GENERAL NOTES:

- PRIOR TO CONSTRUCTION VERIFY ALL EXISTING CONDITIONS, AND DIMENSIONS. INSPECT THE MANHOLES WITH ELECTRIC SHOP REPRESENTATIVE, WHO WILL DETERMINE THE PRECISE LOCATION OF THE NEW LADDER FOR EACH MANHOLE. INFORM THE ENGINEER IMMEDIATELY OF ANY CONFLICTS AND UNEXPECTED CONDITIONS, THE ENGINEER IS xxxxxxxx EXT. xxxx. DO NOT PROCEED WITH CONSTRUCTION UNTIL ALL PROBLEMS ARE RESOLVED. OBTAIN "CONFINED SPACE ENTRY PERMIT" PERMIT PRIOR TO ENTERING THE MANHOLES, DO NOT ENTER THE MANHOLES WITHOUT ELECTRIC SHOP REPRESENTATIVE PRESENT AT THE SITE.
- MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF 2001 CBC.
- MATERIALS:
STEEL: SHAPES AND PLATES--ASTM A36; SUBMIT SHOP DRAWINGS AND WELDING PROCEDURES FOR ENGINEER'S REVIEW PRIOR TO STEEL FABRICATION; ALL STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION AND PRIMED AND PAINTED WITH ONE COAT OF EXTERIOR ENAMEL PRIOR TO INSTALLATION, COLOR SAFETY YELLOW.
REFERENCE TO PROPRIETARY NAMES SUCH AS "HILTI" ARE INTENDED TO ESTABLISH STRUCTURAL PROPERTIES; SUBSTITUTE PRODUCTS WITH AN ICBO REPORT INDICATING EQUIVALENT OR GREATER STRENGTH MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- SPECIAL INSPECTION AS SPECIFIED IN SECTION 1701 OF UBC IS REQUIRED FOR INSTALLATION OF ANCHOR BOLTS AND WELDING.

LBNL CIVIL STANDARDS MANHOLE MODIFICATION PLAN AND SECTION

UNIVERSITY OF CALIFORNIA LAWRENCE BERKELEY NATIONAL LABORATORY
FACILITIES DIVISION

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